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(71) Applicant: ERICSSON, INC. [US/US]; 7001 Development Drive, P.O. Box 13969, Research Triangle Park, NC 27709 (US).

(72) Inventor: DAILEY, Timothy, E.; 2041 Bethel Church Road, Forest, VA 24551 (US).

(74) Agents: HATFIELD, Scott, C. et al.; Myers, Bigel, Sibley & Sajovec, P.A., P.O. Box 37428, Raleigh, NC 27627 (US).

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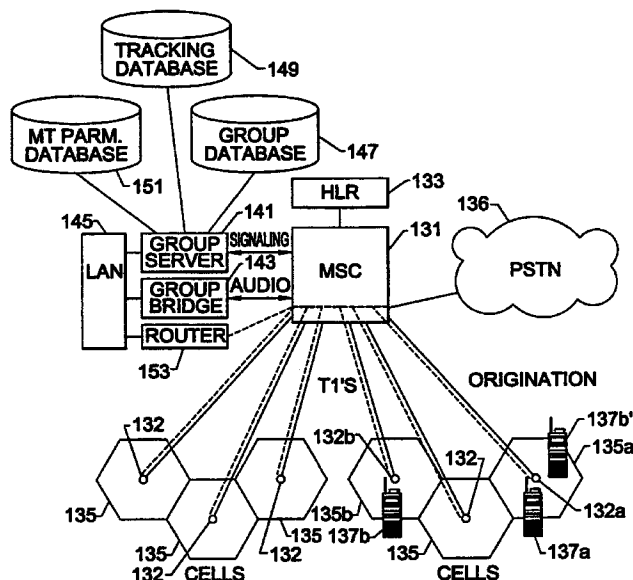
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND SYSTEMS FOR PROVIDING GROUP CALLS WITH REDUCED SETUP TIMES



(57) Abstract: Group calls can be provided between an originating terminal and a called terminal on a radiotelephone communications system including a switching center and a plurality of radio base stations wherein each of the radio base stations defines a cell and wherein each of the originating and called terminals is in one of the cells. In particular, a group call origination message can be received from the originating terminal, and after receiving the group call origination message, a group call setup message can be sent to a radio base station defining a cell within which the called terminal is located. After sending the group call setup message, first and second traffic channels can be designated for the originating terminal to provide communications between the originating and called terminals. Related systems are also discussed.



WO 00/69185 A3

INTERNATIONAL SEARCH REPORT

Intern. Application No

PCT/US 00/09476

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/38 H04Q7/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>GB 2 271 690 A (MOTOROLA ISRAEL LTD) 20 April 1994 (1994-04-20)</p> <p>column 7, line 13 - line 30 column 10, line 20 - line 34; figures 1-3 --- -/--</p>	<p>1-5, 8-11, 23-27, 30-37, 39-41, 50,52, 53,55-57</p>



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

19 December 2000

Date of mailing of the international search report

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Janyszek, J-M

INTERNATIONAL SEARCH REPORT

Intern. Patent Application No

PCT/US 00/09476

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 822 694 A (KREBS JAY R ET AL) 13 October 1998 (1998-10-13)</p> <p>column 2, line 34 - line 54 column 3, line 8 - line 51 column 6, line 4 - line 38 ---</p>	<p>1-5, 23-26, 30-32, 34, 36, 37, 39, 40, 50-52, 55, 56</p>
X	<p>WO 99 17581 A (MARUYAMA YASUO ; SAWADA MASAHIRO (JP); YABUSAKI MASAMI (JP); NIPPON) 8 April 1999 (1999-04-08) abstract</p>	58-61
P, X	<p>-& EP 0 942 616 A (NTT MOBILE COMMUNICATIONS NETWORK INC.) 15 September 1999 (1999-09-15) column 1, line 20 - column 2, line 58; claim 1 -----</p>	58-61

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/09476

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

As a result of the prior review under R. 40.2(e) PCT,
no additional fees are to be refunded.

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☒ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-57

Method and system for setting up group calls

2. Claims: 58-61

Method and terminal with call operating parameter update

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/09476

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2271690 A	20-04-1994	CA 2108324 A CN 1086649 A	18-04-1994 11-05-1994
US 5822694 A	13-10-1998	NONE	
WO 9917581 A	08-04-1999	JP 11113052 A EP 0942616 A	23-04-1999 15-09-1999